

## CLAIMS

### I Claim:

- 1 1. A remote control comprising:
  - 2 a mechanical data entry configured to control a video display system, the
  - 3 mechanical data entry including a power control, a volume control, or a
  - 4 channel control;
  - 5 a multi-bit data sensor including a transducer configured to read data from a
  - 6 portable data repository;
  - 7 a memory configured to store the read data and information identifying the remote
  - 8 control; and
  - 9 an interface configured to transfer the read data and the identifying information
  - 10 from the remote control.
- 1 2. The remote control of claim 1, wherein the transducer is an electromagnetic transducer.
- 1 3. The remote control of claim 1, wherein the transducer is an optical transducer.
- 1 4. The remote control of claim 1, wherein the interface is a wireless interface.
- 1 5. The remote control of claim 1, further including a video display configured for  
2 programming the remote control.
- 1 6. The remote control of claim 1, further comprising a logic circuit configured to encrypt  
2 the read data.

1 7. The remote control of claim 6, wherein the logic circuit is further configured to encrypt  
2 device identification data.

1 8. The remote control of claim 7, wherein the data read from the portable data repository  
2 is an account number.

1 9. The remote control of claim 7, wherein the data read from the portable data repository  
2 is a credit card number.

1 10. The remote control of claim 7, wherein the data read from the portable data repository  
2 is user identifying data.

1 11. The remote control of claim 6, further including means for generating a  
2 pseudorandom number for use by the logic circuit.

1 12. The remote control of claim 1, further including an x-y pointer.

1 13. The remote control of claim 1, further including a trackball configured as an x-y  
2 pointer.

1 14. A transaction system comprising:  
2 a video display system including,  
3 a display,  
4 a remote control configured to control functions of the video display  
5 system, the remote control having

6                   a) a mechanical data entry including a power control, and a volume  
7                   control or a channel control,  
8                   b) a multi-bit data sensor including a transducer and configured to  
9                   read data from a portable data repository, and  
10                  c) a first interface configured to transfer the read data, from the  
11                  remote control to other portions of the video display  
12                  system;  
13                  memory configured to store device identification data; and  
14                  a second interface configured to transfer the read data to a  
15                  communications network.

1    15. The transaction system of claim 14, further including the portable data repository.

1    16. The transaction system of claim 15, wherein the remote control further includes a  
2       logic circuit configured to encrypt the data read from the portable data repository.

1    17. The transaction system of claim 14, further including a network server configured to  
2       receive and decrypt the data transferred to the communications network.

1    18. The transaction system of claim 14, wherein the display is configured for use in  
2       programming the remote control.

1    19. The transaction system of claim 14, wherein the remote control is configured to  
2       transmit programming instructions to the display.

1 20. A method of performing secure transmission of data, the method comprising the steps  
2 of:  
3 setting a multi-bit data sensor in a read mode, the multi-bit data sensor being  
4 included in a remote control, the remote control being configured to  
5 control a video display system;  
6 reading data from a portable data repository using the multi-bit data sensor;  
7 transferring, using a wireless interface, the read data from the remote control to  
8 the video display system;  
9 transferring the read data from the video display system to a third party; and  
10 authenticating the read data transferred from the video display system.

1 21. The method of claim 20, further including encrypting the read data using a logic  
2 circuit.

1 22. The method of claim 21, wherein the logic circuit is included in the remote control.

1 23. The method of claim 20, further including transferring device identification data from  
2 the remote control to the third party.

3 24. The method of claim 23, wherein the device identification data is configured to  
4 identify the remote control.

1 25. The method of claim 23, further including a step of determining, using the device  
2 identification data, a credit card authorized to perform secure transactions.

- 1 26. The method of claim 20, further including a step of generating a pseudorandom  
2 number using the remote control.
- 1 27. The method of claim 26, further including using the pseudorandom number to encrypt  
2 the read data using a logic circuit.
- 1 28. A method of entering secure data, the method comprising:  
2 setting a multi-bit data sensor in a read mode, the multi-bit data sensor being  
3 included in a remote control having a logic circuit;  
4 disposing a portable data repository relative to the multi-bit data sensor;  
5 reading data from the portable data repository using the multi-bit data sensor;  
6 encrypting the read data using the logic circuit; and  
7 transferring the encrypted data from the remote control.
- 1 29. The method of claim 28, wherein the portable data repository is a credit card, debit  
2 card, smart card, or identification card.
- 1 30. A video display system configured for performing a secure transaction, the video  
2 display system comprising:  
3 a remote control including means for controlling functions of the video display  
4 system;  
5 means for reading data from a portable data repository using the remote control;  
6 means for transferring the read data from the remote control to other portions of  
7 the video display system; and

8 means for transferring the read data from the video display system to a  
9 communications network.

1 31. The secure transaction system of claim 30, further including means for encrypting the  
2 read data.

1 32. A video display system comprising,  
2 a remote control configured to control functions of the video display system, the  
3 remote control having at least  
4 a mechanical data entry including a power control, a volume control or a  
5 channel control,  
6 a first interface configured to transfer data entered by a user from the  
7 remote control, and configured to receive data, and  
8 memory configured to store the received data;  
9 a video display configured to display a menu responsive to the data transferred  
10 from the remote control, configured for the user to select a number or a  
11 letter from the menu, and configured to transfer the selected number or  
12 letter from the video display to the remote control through the first  
13 interface for storage in the memory; and  
14 a second interface configured to transfer data stored in the memory from the video  
15 display system to a communications network.

1 33. The video display system of claim 32, further including memory configured to store  
2 device identification data.

1 34. The video display system of claim 33, wherein the memory configured to store device  
2 identification data is included in the video display.

1 35. The video display system of claim 33, wherein the memory configured to store device  
2 identification data is included in the remote control.

1 36. The video display system of claim 32, wherein the data stored in the memory includes  
2 credit card data.

1 37. The video display system of claim 32, wherein the data stored in the memory includes  
2 address data.

1 38. The video display system of claim 32, further including a multi-bit data sensor  
2 configured to read data from a data repository for storage in the memory.

1